AMENDMENTS TO THE SPECIFICATION

Page 1, before paragraph [0001] please amend the title as follows:

~~VSB RECEIVER AND~~

~~METHOD FOR PROCESSING RECEIVING SIGNAL IN THE SAME~~

A VESTIGIAL SIDEBAND (VSB) RECEIVER

Please replace paragraph [0002] with the following amended paragraph:

[0002] The present invention relates to a Vestigial Sideband (VSB) receiver ~~and a method for processing a receiving signal in the same~~.

Page 1, before paragraph [0002], please replace the subheading with the following amended subheading:

Discussion of the Prior ~~Related~~ Art

Please replace paragraph [0006] with the following amended paragraph:

[0006] FIG. 1 illustrates a ~~related~~ prior art VSB communication system for a terrestrial digital television.

Please replace paragraph [0011] with the following amended paragraph:

[0011] The operation of the aforementioned ~~related~~ prior art VSB communication system will be described with reference to the accompanying drawings.

Please replace paragraph [0013] with the following amended paragraph:

[0013] The VSB modulated signal is transmitted from the transmitter to the receiver and can be expressed as follows.

$$v'c(t)=x'(t)\cos wct+x'h(t)\sin wct \quad \ldots\ldots\ldots\ldots(1)$$

Please replace paragraph [0019] with the following amended paragraph:

[0019] The signal output from the second multiplier 13 can be expressed as follows.

$$v'i(t)=x'(t)\cos wi(t)+x'h(t)\sin wit \quad \ldots\ldots\ldots\ldots(2)$$

Please replace paragraph [0020] with the following amended paragraph:

[0020] Also, the signal passed through the second band pass matched filter 14 can be expressed as follows.

$$vi(t)=x(t)+\cos wct+xh(t)\sin wit \quad \ldots\ldots\ldots\ldots(3)$$

Please replace paragraph [0031] with the following amended paragraph:

[0031] Accordingly, the present invention is directed to a VSB receiver and a method for processing a receiving signal in the same that substantially obviates one or more problems due to limitations and disadvantages of the prior ~~related~~ art.

Please replace paragraph [0032] with the following amended paragraph:

[0032] An object of the present invention is to provide a VSB receiver ~~and a method for processing a receiving signal in the same~~ that is not subject to frequency offset.

Please replace paragraph [0033] with the following amended paragraph:

[0033] Another object of the present invention is to provide a VSB receiver ~~and a method for processing a receiving signal in the same~~ that is based on a complex base band.

Please delete paragraph [0038] in its entirety:

[0038] ~~In another aspect of the present invention, a method for processing a signal in a VSB receiver having a tuner, includes the steps of: generating an intermediate frequency band signal by multiplying a received signal through the tuner by an intermediate frequency signal; generating a complex base band signal consisting of an I channel signal and a Q channel signal by multiplying the intermediate frequency band signal by an I channel local carrier wave signal and a Q channel local carrier wave signal; and complex matched filtering at least one of the I channel signal and the Q channel signal.~~

Please replace paragraph [0041] with the following amended paragraph:

[0041] FIG. 1 is a diagram illustrating a prior ~~related~~ art VSB communication system for a terrestrial digital broadcasting;

Please replace paragraph [0044] with the following amended paragraph:

[0044] FIG. 4 is a block diagram illustrating a prior ~~related~~ art VSB communication system that employs a base band matched filter;

Please replace paragraph [0056] with the following amended paragraph:

[0056] FIG. 7A is a diagram illustrating the complex base band matched filter 35 when the I channel and the Q channel are required. Referring to FIG. 7A, the complex base band matched filter 35 includes a first base band matched filter 351 filtering a real domain of the I channel signal, a second base band matched filter 353 filtering an imaginary domain of the I channel signal, a third base band matched filter 352 filtering a real domain of the Q channel signal, a fourth base band matched filter 354 filtering an imaginary domain of the Q channel signal, a first adder 355 adding the filtered real domain signals output from the first base band matched filter 351 and the third ~~second~~ base band matched filter 352 to output the resultant value as a new I channel signal, and a second adder 356 adding the filtered imaginary domain signals output from the second ~~third~~ base band matched filter 353 and the fourth base band matched filter 354 to output the resultant value as a new Q channel signal.

Please replace paragraph [0064] with the following amended paragraph:

[0064] The sixth multiplier 34a, as shown in FIG. 5A, multiplies the intermediate frequency band signal by the first local carrier wave signal 2coswit to demodulate the intermediate frequency band signal to the I channel signal h. The seventh multiplier 34b, as shown in FIG. 6~~5B~~, the intermediate frequency band signal by the second local carrier wave signal 2sinwit to demodulate the intermediate frequency band signal to the Q channel signal i.

Please replace paragraph [0069] with the following amended paragraph:

[0069] The complex signal has a frequency spectrum that is asymmetrical around 0, as shown in FIGS. ~~8A and~~ 8B. FIG. 8A illustrates a frequency spectrum of the I channel signal, FIG. 8B illustrates a frequency spectrum of the Q channel signal, and FIG. 8C illustrates a frequency spectrum of the base band signal r(t). The complex base band matched filter 35 has the same frequency characteristic as that of the transmitting signal.